***** CONFIDENTIAL ***** ***** PREDECISIONAL DOCUMENT *****

SUMMARY SCORESHEET FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: JAQUAYS EQUIPMENT C	OMPANY		
CITY, COUNTY: PHOEN IX MARICOPA	ewary	i	
EPA ID #:AZDO09617989	EVALUATOR:	Cathur	Cariz
PROGRAM ACCOUNT #: FAZZ20698A	DATE:	07.03.9	1
Lat/Long: 7	- R/S:	?	-L
THIS SCORESHEET IS FOR A: PA	ssi	LSI	
SIRe PA Redo Other (Specify)	PA revie		
RCRA STATUS (check all that apply):			
Generator Small Quantity Generator	Transpor	ter TSD	F
$\overline{\hspace{0.1in}\hspace{0.1in}\hspace{0.1in}}$ Not Listed in RCRA Database as of (date of			
STATE SUPERFUND STATUS:			
BEP (date)/ WQARF	(date) /	/	
$oldsymbol{X}$ No State Superfund Status (date)/_/			
		S ² pathway	
Groundwater Migration Pathway Score (Sgw)	19.58	383.21	
Surface Water Migration Pathway Score (S _{SW})	*	*	
Soil Exposure Pathway Score (S _S)	*	*	
Air Migration Pathway Score (S _a)	*	*	1
$S_{gw}^2 + S_{sw}^2 + S_{s}^2 + S_{a}^2$	**************************************	383,21	
$(S_{gw}^2 + S_{sw}^2 + S_{s}^2 + S_{a}^2)/4$	**************************************	95.80	
$\int (S_{gW}^2 + S_{SW}^2 + S_{S}^2 + S_a^2)/4$	**************************************	9.79	
		,	1

*Pathways not assigned a score (explain):

No use for surface waters nown gradient of site. No sources with hose, substances available to air pathway. No soil >/hrs exposure pathway - site entirely paved. 21-May-1991

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors

	Likelihood of Release	Maximum <u>Value</u>	Projected Score	Rationale	Data Qual.
1. 2.	TODEL TO MCICAGO	550			E_
	2a. Containment2b. Net Precipitation2c. Depth to Aquifer	10 10 5	3 3	<u>2</u> <u>3</u>	_ <u>E</u>
	2d. Travel Time 2e. Potential to Release	35	<u> </u>	5	E
3.	[Lines $2a \times (2b+2c+2d)$]	500	410		
J.	of lines 1 or 2e)	550	410		
	Waste Characteristics				
4. 5. 6.	Hazardous Waste Quantity	a a 100	200	<u>6</u> 1	<u>tf</u>
	Targets				
7. 8.	Nearest Well Population	50	<u> </u>	8	
9. 10.	 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8 Resources Wellhead Protection Area 	b b b Bc) b 5	1300 1300 1300	9	E
11.	Targets (lines 7+8d+9+10)	ь	1313		<u></u>
	Likelihood of Release				
12.	Aquifer Score [(Lines 3 x 6 x 11)/82,500] ^c	100	19.58		
Groun	ndwater Migration Pathway Score				
13.	Pathway Score (Sgw), (highest value from line 12 for all aquifers evaluated)	100	19.58 c		

a Maximum value applies to waste characteristics category. b Maximum value not applicable.

c Do not round to the nearest integer.

d Use additional tables.

GROUNDWATER PATHWAY CALCULATIONS

8. Population

Actual Contamination

metaar oo	II CAMI	iia (TOII				•	
Well Identifier		aminant tected	Concentration (Note Units)	Benchmark	(A) Apportioned Population Well Serves	(B) Level* Multip.	 (A x B)
* Multiplier				Sum	(AXB) Level	I	
Level ILevel I		10 1		Sum	(AXB) Level	II	

Potential Contamination

Distance (miles)	Total Number of Wells Within Distance Ring	Total Population Served by Wells Within Distance Ring	Distance-Weighted Population Values "Other Than Karst" (Table 3-12) (A)
0 to 1/4			
>1/4 to 1/2		0	0
>1/2 to 1	O	O	0
>1 to 2	O		0
>2 to 3	O		0
>3 to 4	1 ?.	167504	13,000
		Sum (A)	13,000

Potential contamination = $\frac{Sum(A)}{10} = \frac{1300}{100}$

^{*} For drinking water wells that draw from a karst aquifer, see the Distance-Weighted Population Values for "Karst" in Table 3-12.

Rationale Jaquays Equipment company AZDOO9017989

1) A release of contaminants attributable to the site

2) Swrces

washoil/solvent tank

concrete sump for washwater - sturing around sump

Contramient of these surves ?

3 Net precipitátion ~ 3" (HRS)

1 Depth to Aquifer

6 Travel Time

0-6. top soil 0-201 clay calicle, trulders 141, 10-2 201-101 toulders 35.

tox/mob TUX PLE 100 100 10 $(O_{i+1}$ 1,1-DUE 100 900 100 1 0.01 1000 0.2 200 TCA

these solvents may have been used on site in past

D weiste quantity

50 | vent tenk = 2-59,

wask oil /80 | venk = 1009 | 1059 /500 = <

Sump =>

Default = 10

8 necrest well = 3 miles

9 17% of dw is grandwater pop served total = 985,315 pop rec. gw = 0.17 × 985,315 = 107,504 necrest well @ 3 mills

of wells in system @ 3-4 miles?

-> assume all groundwater wells ,3-4 miles away

13,000 - 10 = 1300

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10 resurces - riving well 500' Not site 11 not well head protect and

SITE REEVALUATION WORKSHEET

Site name

: Jaquays Equipment Company

EPA ID No. : AZD009017989

City

State ID No.: 597

County

: Phoenix : Maricopa

Site Evaluator: Ana I. Vargas

Date

: May 31, 1991

POTENTIAL RELEASES

[X		Groundwater
[]	Surface Water
[]	Air
[]	On-site/Direct contact

SCORING SCENARIOS	Best Case	Worst Case
GROUNDWATER ROUTE SCORE (Sgw) =	31.29	46.94
SURFACE WATER ROUTE SCORE (Sw) =	0.00	0.00
AIR ROUTE SCORE (Sa) =	0.00	0.00
TOTAL SCORE (Sm) =	18.09	27.13

NEW HRS MODEL CONSIDERATIONS

GROUNDWATER ROUTE:

SURFACE WATER ROUTE:

AIR ROUTE:

ON-SITE ROUTE:



GROUND WATER ROUTE WORKSHEET

RATING FACTOR	BEST CASE		VORST CASE	REF.		CONF.
OBSERVED RELEASE	0	0	45	45	1	. 2
ROUTE CHARACTERISTICS Depth to aquifer Net precipitation Permeability of unsaturated zone Physical state TOTAL ROUTE SCORE	2 0 3 3	4 0 3 3 10	0 0 0 0		2 3 4 5	3 3 3 3
CONTAINMENT	3	3	0		6	2
WASTE CHARACTERISTICS Toxicity / Persistence Hazardous waste quantity TOTAL WASTE SCORE	. 12 1	12 1 13	12 1	12 1 13	7	3 2
TARGETS Ground water use Dist. to nearest well/pop. served TOTAL TARGETS SCORE	2 40	6 40 46	2 40	6 40 46	9 10	3 2
GROUND WATER ROUTE SCORE (Sgw)		,			·	
BEST CASE SCORE		31.29				
WORST CASE SCORE			4	16.94		



WORST CASE SCORE

*PRE-DECISIONAL DOCUMENT***

SURFACE WATER ROUTE WORKSHEET

RATING FACTOR	BEST CASE		ORST ASE	REF.	CONF.
OBSERVED RELEASE	. 0	. 0	0	0	1
ROUTE CHARACTERISTICS Fac. slope/intervening terrain 1 - year 24 - hour rainfall Distance to nearest surface water Physical state TOTAL ROUTE SCORE	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	
CONTAINMENT	0	0	.0	0	
WASTE CHARACTERISTICS Toxicity / Persistence Hazardous waste quantity TOTAL WASTE SCORE	, 0	0 0 0	0	0 0 0	
TARGETS Surface water use Dist. to a sensitive environment Pop serv/dist to intake dwnstrm TOTAL TARGETS SCORE	0 0 0	0 0 0 0	0 0 0	0 0 0 0	
TOTAL SURFACE WATER ROUTE SCORE (Ssv	v) . ,	1			
BEST CASE SCORE		0.00		,	

0.00



AIR ROUTE WORKSHEET

RATING FACTOR	BEST CASE		ORST CASE	REF	CONF.
OBSERVED RELEASE	0	0	0	0	
DATE and LOCATION					
SAMPLING PROTOCOL		•			
WASTE CHARACTERISTICS Reactivity/Incompatibility Toxicity Hazardous waste quantity TOTAL WASTE SCORE	0 0 0		0 0 0		
TARGETS Population within a 4-mile radius Distance to sensitive environment Land use TOTAL TARGETS SCORE	0 0 0		0 0 0		
TOTAL AIR ROUTE SCORE (Sa)					
BEST CASE SCORE		0.00			
WORST CASE SCORE			•	0.00	
MIGRATION HAZARD MODE SCORE (Sm)			3		
BEST CASE		18.09			
WORST CASE		,	2	7.13	

SITE REEVALUATION WORKSHEET REFERENCES

 Best Case: Observed release to groundwater, surface water, and air is not currently documented.

<u>Worst Case</u>: The Jaquays site is located in an area of known groundwater contamination. Groundwater in the area is contaminated with TCE, PCE, DCE, DCA, and TCA. Given the chemicals known to have been used on-site, unknown historical waste disposal practices, the regional characteristics for the area surrounding the site, depth to groundwater (64 feet), and high target population, the potential for an observed release to groundwater appears to exist.

2. In the area of the site, depth to groundwater is 64 ft. Obtained from:

Merged 35, 55 and GWSI Well Registry, Arizona Department of Water Resources. October 10, 1990.

Assigned value = 2

3. Net seasonal precipitation was calculated to be -16 inches annually. Obtained from:

"Arizona Precipitation, Evaporation and Evapotranspiration," Arizona Resources Information System. Cooperative Information No. 5. May 1975

Assigned value = 0

4. Permeability is $>10^{-3}$ cm/sec. Obtained from :

"General Soil Map, Maricopa County, Arizona", by Soil Conservation Service, United States Department of Agriculture. 1973.

Assigned value = 3

5. Physical state of hazardous substances - liquid

Assigned value = 3

- 6. Containment Stained soil areas have been observed on-site.
 Assigned value = 3
- 7. Toxicity/persistence matrix value: PCE Matrix value for PCE = 12
- 8. Hazardous waste quantity: unknown
 Assigned value = 1
- 9. Groundwater use within a 4-mile radius, obtained from:
 Merged 35, 55 and GWSI Well Registry, Arizona Department of Water Resources. October 10, 1990.
 Assigned value = 2
- 10. Distance to nearest well/population served :
 Nearest well is the RID #104, an irrigation well
 Distance: 500 feet; Population served : Over 10,000 people.
 Matrix value = 40